

OFFICIAL

D. Gaurer  
#111D  
7.12.03

I hereby certify that this Correspondence is being faxed to the Commissioner for Patents at fax number 703-872-9310

on 7/11/03  
Date

Signature of John C. Thompson

7/11/03  
Date of Signature

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## PATENT APPLICATION

FAX RECEIVED  
JUL 14 2003  
GROUP 1700

Applicant: Goran B. Enhorning

Ser. No.: 09/609,918

Group Art Unit: 1743

Filed: July 3, 2000

Examiner: LaToya Cross

For: PIPETTE HAVING A SMALL VOLUME DISPOSABLE TIP

## AMENDMENT

Hon. Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Please amend the above identified application as follows:

1. (Twice Amended) A pipette assembly having a small volume disposable tip capable of taking very small quantities of samples in an accurate manner, the pipette assembly being of an inexpensive construction, the pipette assembly comprising:

a suction device having a female receiver of a funnel shape for receiving disposable pipette tips; and

a disposable pipette tip formed of extruded plastic tubing which has relatively uniform inside and outside diameters throughout its length, the tubing being snugly received in the funnel shaped female receiver of the suction device.

09/609,918

4. (Twice Amended) A pipette assembly having a small volume disposable tip capable of taking very small quantities of samples in an accurate manner, the pipette assembly being of an inexpensive construction, the pipette assembly comprising:

a suction device having

a piston cylinder in the form of a narrow tube having a distal end,

a piston slidable within the piston cylinder, the piston being in the form of a thin wire having a distal end,

means to move the piston between extended and retracted positions, the distal end of the piston being adjacent the distal end of the piston cylinder when in the extended position whereby there is substantially no air within the piston cylinder when the piston is extended, and

a female receiver of a funnel shape for receiving disposable pipette tips, the female receiver being carried adjacent the distal end of the piston cylinder; and

a disposable pipette tip formed of extruded plastic tubing which has relatively uniform inside and outside diameters throughout its length, the tubing being snugly received in the female receiver of the suction device, with one end adjacent the piston cylinder.

09/609,918

6. (Amended) A method of drawing up precise quantities of liquid samples in the range of 0.2 to 2.0  $\mu$ l, said method comprising the following steps:

providing a cylinder of plastic material which has a uniform inside diameter of about 0.2 to 0.3 mm., the cylinder having a funnel shaped distal end;

providing a disposable pipette tip consisting of extruded tubing of teflon® or other hydrophobic material, the tubing having relatively uniform inside and outside diameters throughout its length, the inside portion of the tubing having a volume of about 0.2 to 2.0  $\mu$ l, the tubing having first and second ends;

connecting the first end of the tubing with the distal end of the cylinder by introducing the first end of the tubing into the funnel shaped distal end to achieve a tight fit;

providing a piston slidable within the cylinder, the piston being in the form of a thin wire;

inserting the second end of the tubing into a liquid sample; and

moving the wire piston away from the sample about a 5 - 20 mm. stroke to produce a sample having a volume from 0.2 to 2.0  $\mu$ l.

Cancel claim 7.

Please add the following claim: